

The Value and Potential of ERP

Office of Financial Management

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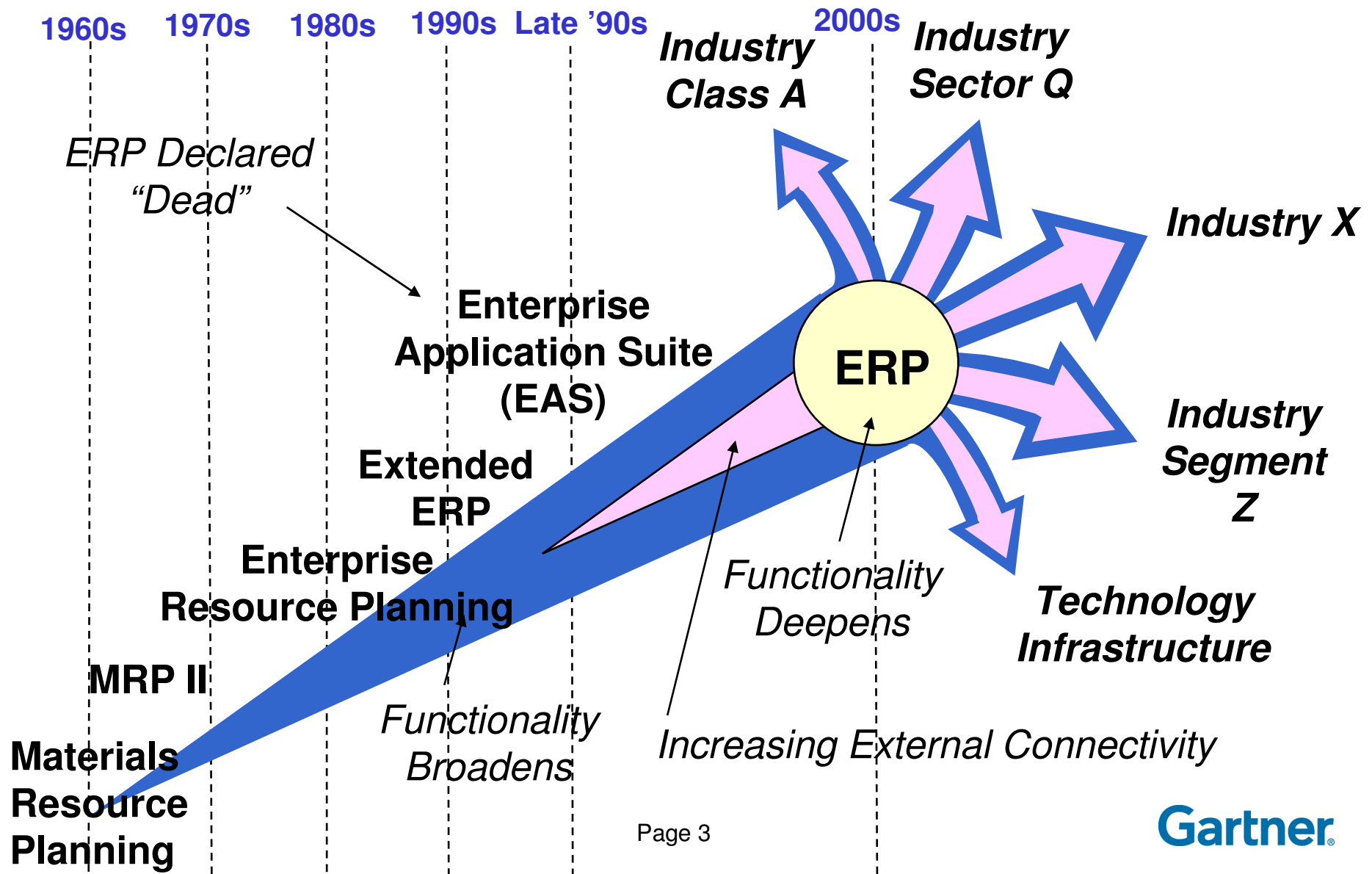
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Discussion Topics

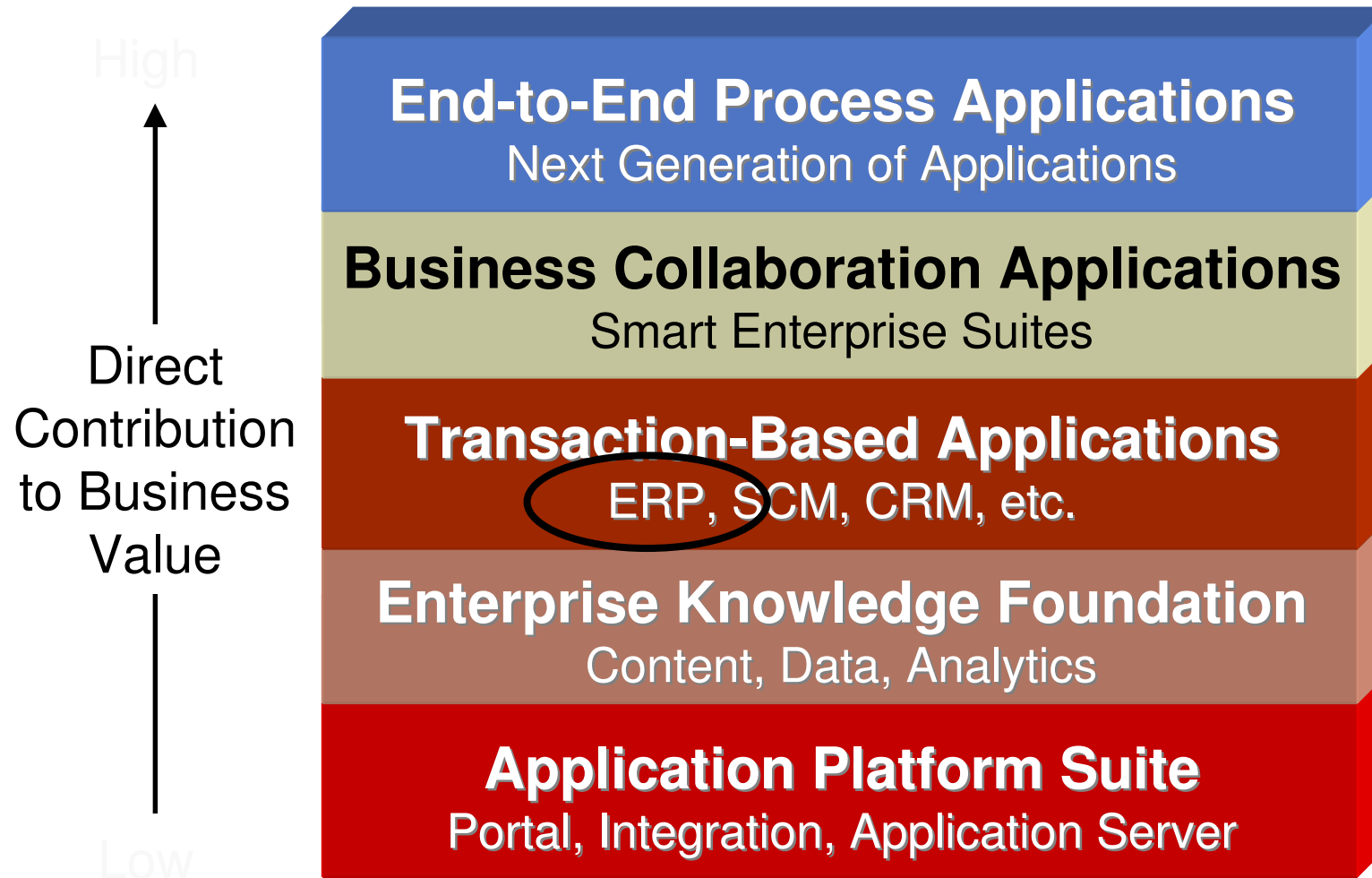
- History of ERP, where it came from
- Who is an appropriate candidate for ERP?
- ERP Risks
- Why is it difficult for Government to embrace ERP?
- Instance strategies
- Build vs. Buy vs. Leverage existing SAP and historical systems
- ERP Lessons Learned

History of ERP

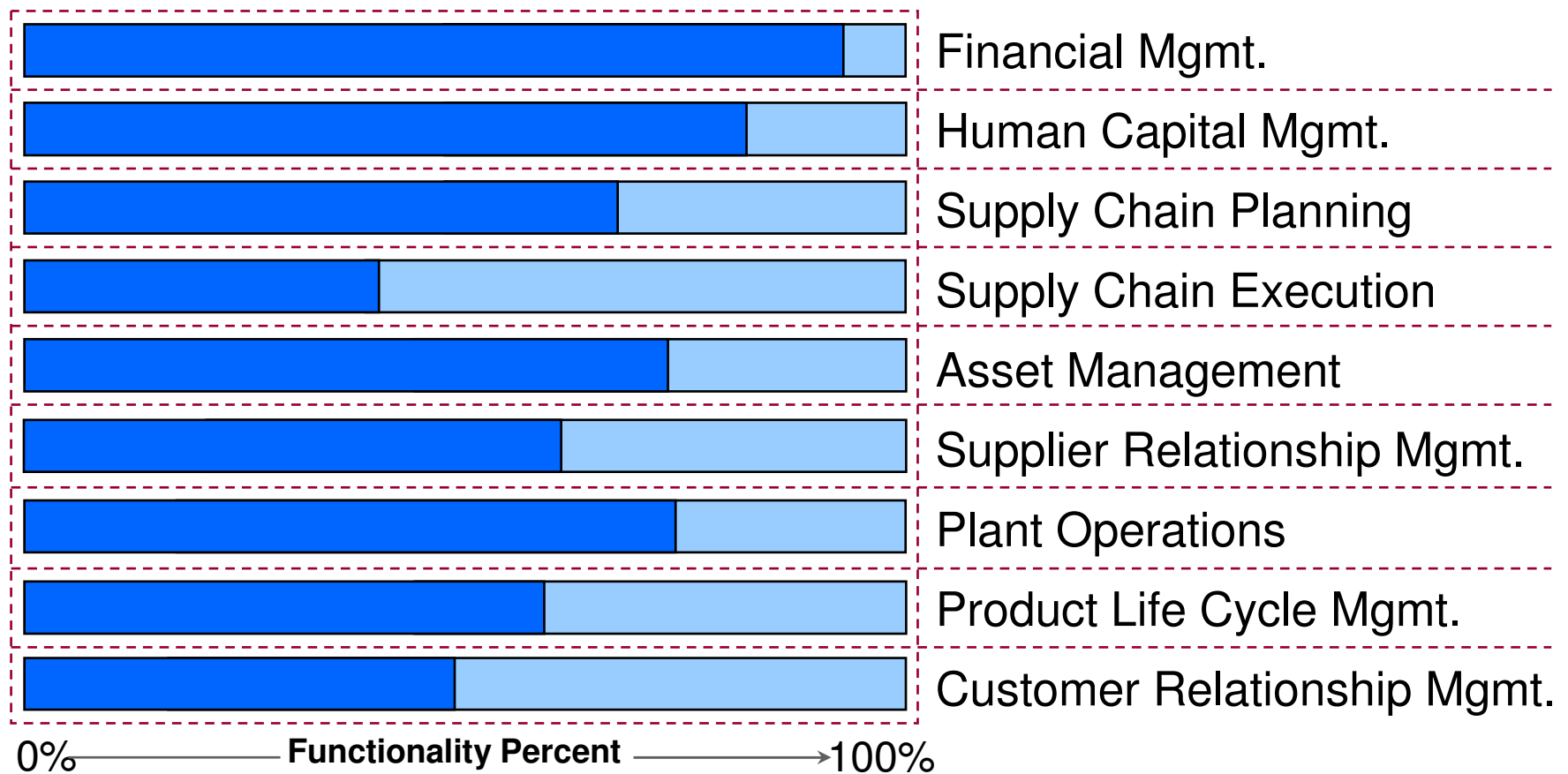
Getting To ERP – A Little History



The Business Application 'Stack'



ERP Functional Breadth Scorecard



0% ————— Functionality Percent —————> 100%

■ ERP Vendor ■ Best-of-Breed Vendor Combination

Application Software and Vendors Take a Radical Turn

Starting in ...	1970s	1997	2007
... The user requests:	An Application	An Application	Functionality, Industry Expertise
... The user can buy:	An Application	Applications as Services	Function-Level Business Services
... Applications are:	In-House	Outsourced	Anywhere
... The payment method is:	Buy	Rent	Buy, Rent, Pay a Usage Fee
... Your vendors provide:	Single Applications	Packages, ERP, Process Models	SOA, Fusion, Industry Focus

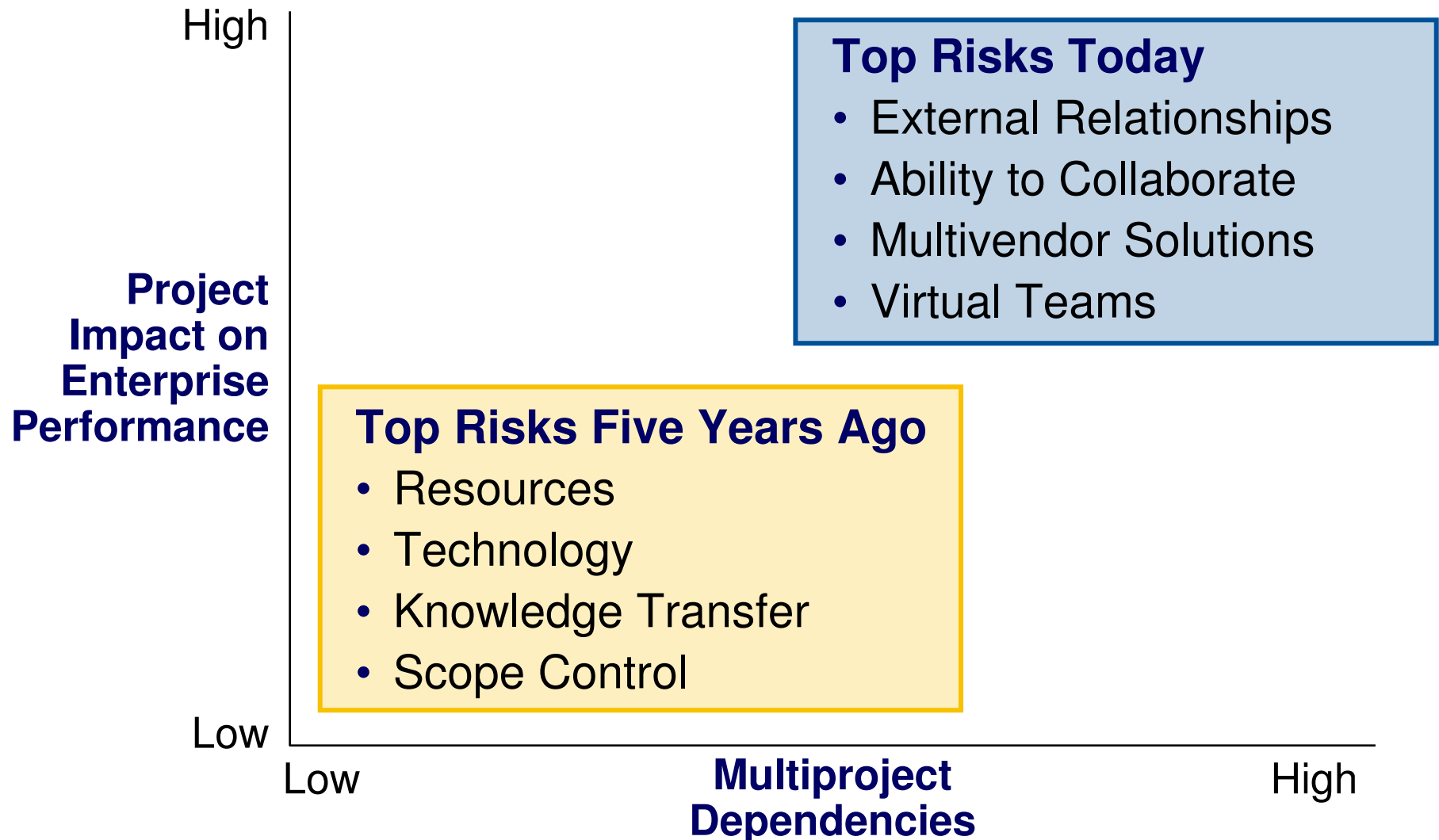
Who is an Appropriate Candidate for ERP?

ERP Objectives

- Leverage vendor development
- Get out of the software business
- Leverage “best practices”
- Common database and data definitions
- Leverage packaged integration
- Enable a business transformation
- Deeper and broader support and documentation
- Leverage new technology
- Achieve compliance

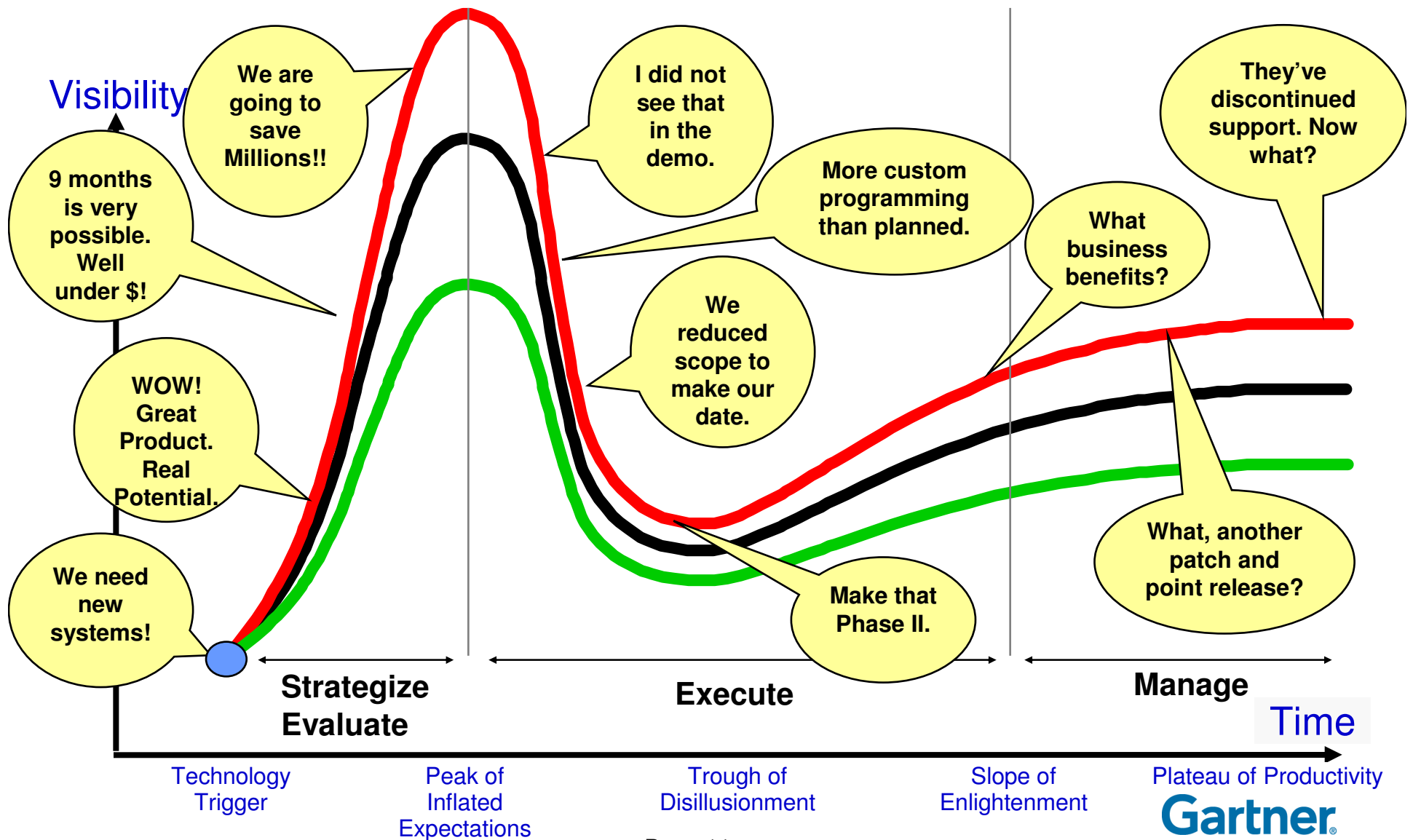
ERP Risks

ERP Risks Have Changed



Challenge: Early detection and resolution of problems **Gartner®**

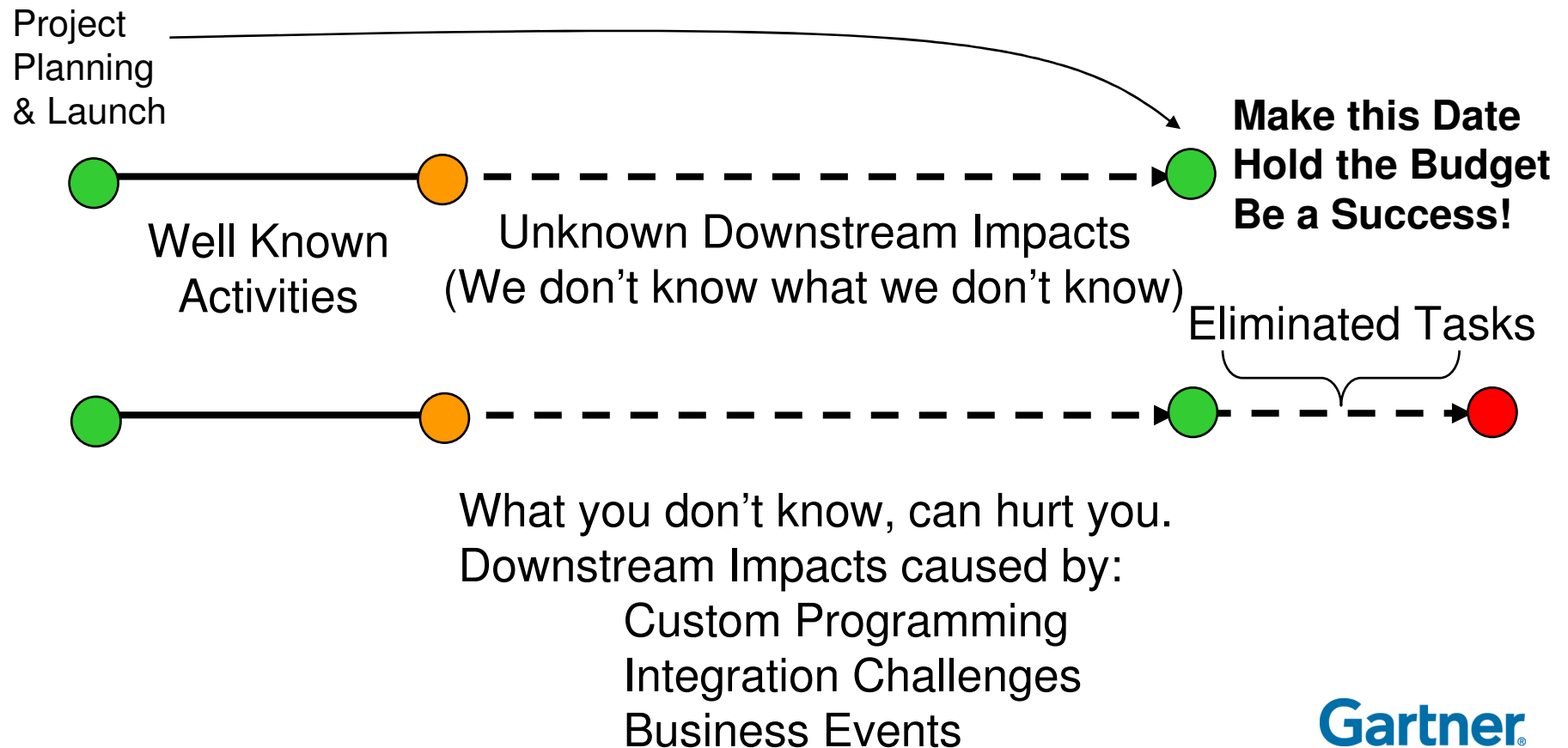
Implementation Reality



ERP Success Metrics Often Miss the Mark

Success is typically defined as being on time and on budget.

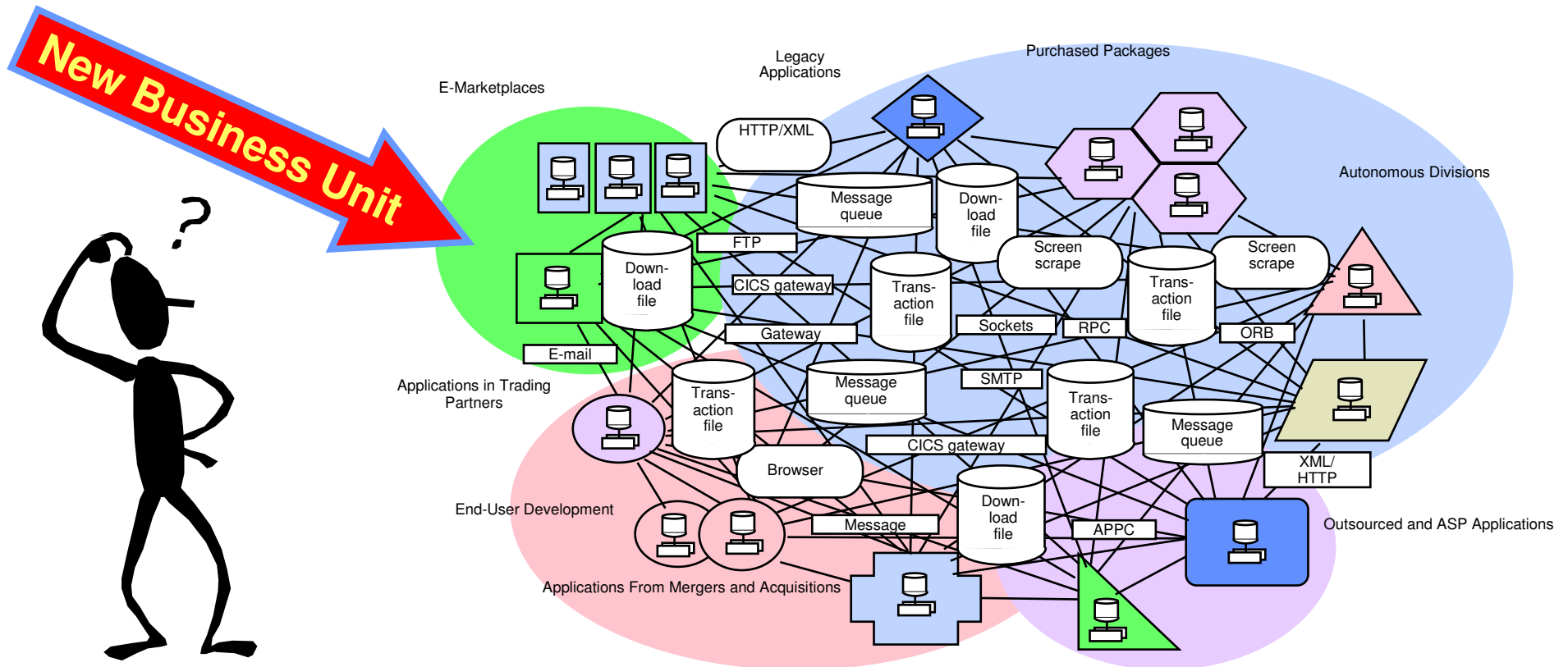
When measuring success, also look at whether program objectives are achieved.



Why is it Difficult for Government to Embrace ERP?

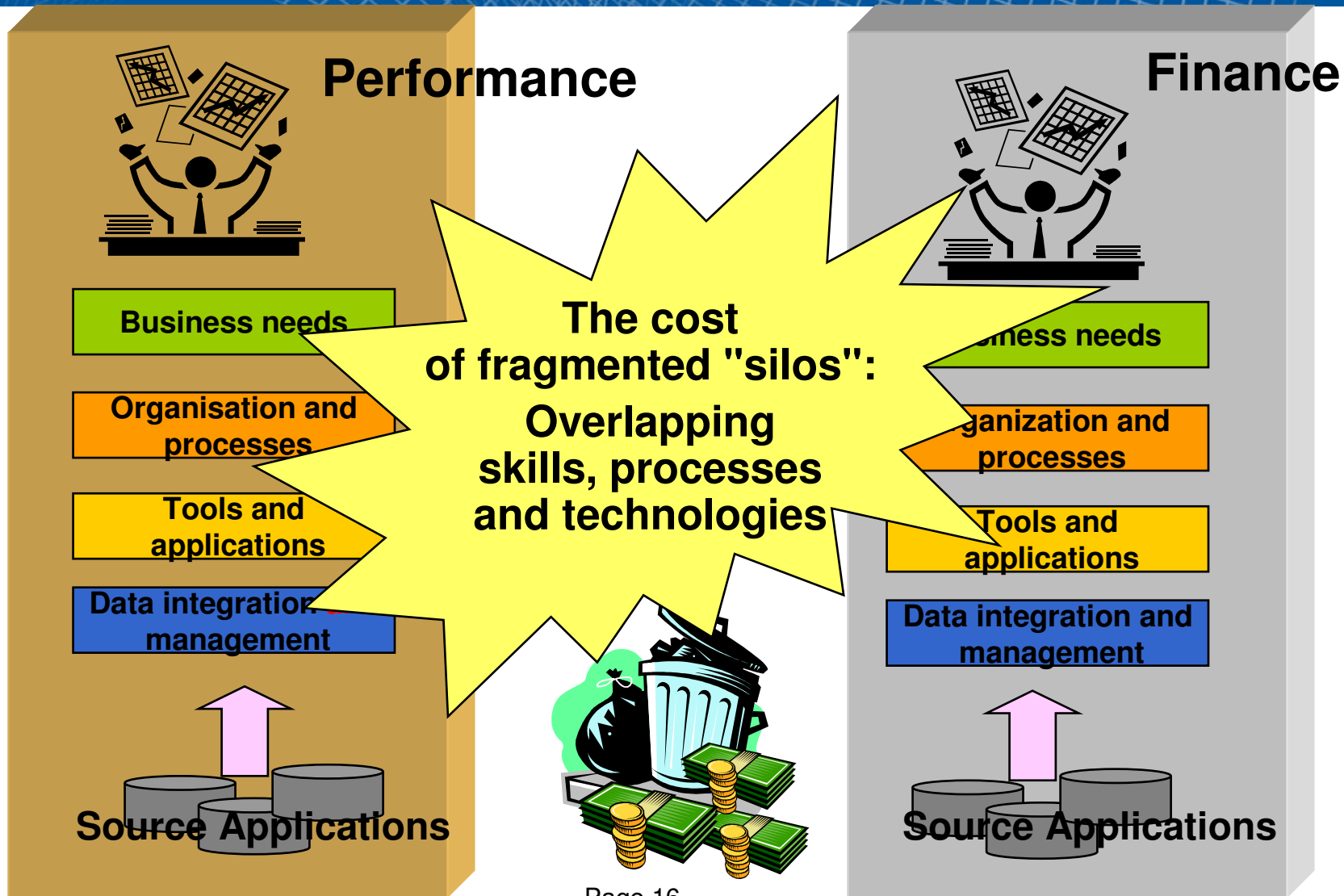
Instance Strategies

Complexity Reduction: 'One In, One Out' Is the Minimum Rule



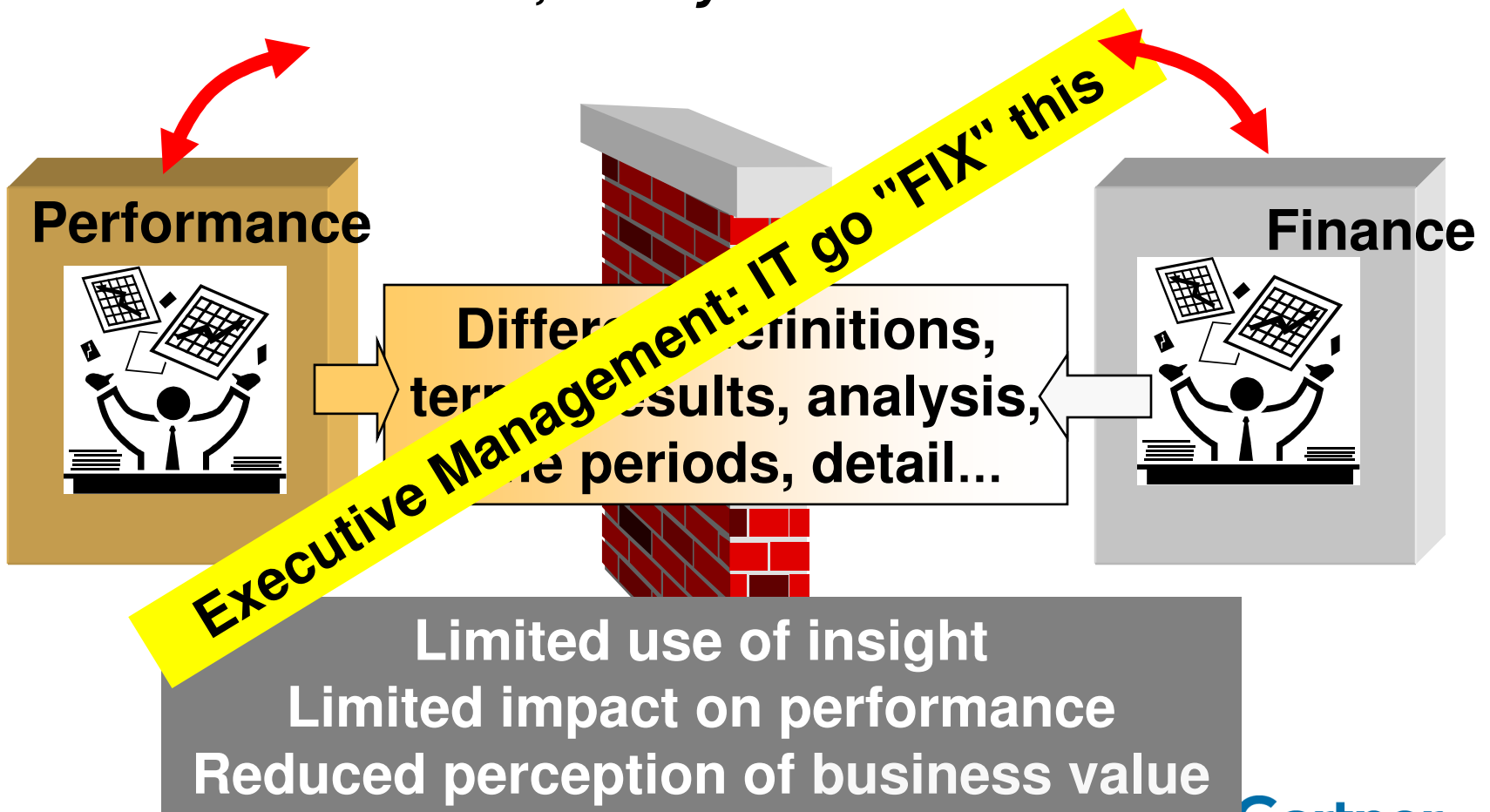
Complexity Is the Enemy of Adaptability

Multiple Instances Highlight Organizational Barriers



The Consequence Is Inconsistent Results, Organizational Turmoil and Inefficiencies

Flaw: Results may be *accurate*,
but NOT *consistent*, *timely* or *relevant* to each other

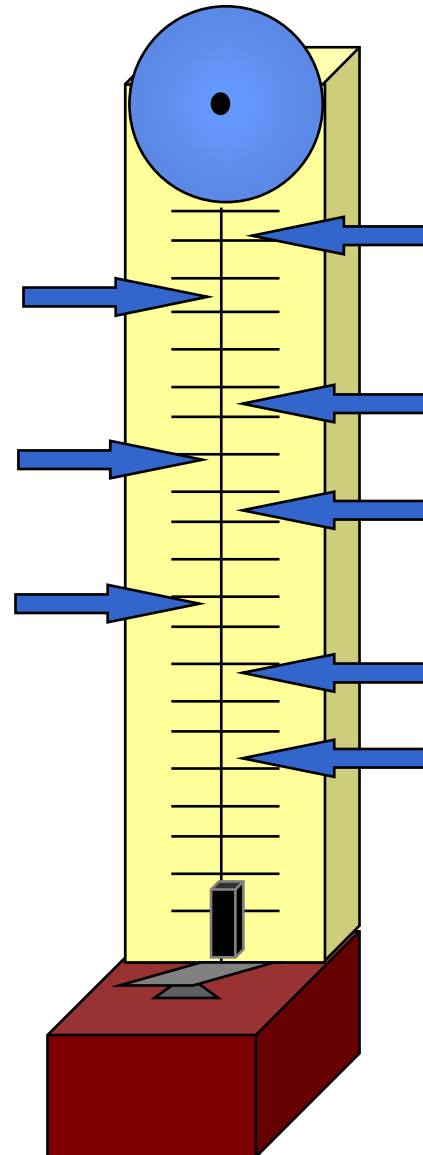


Managing Instances

**Ring the bell and be a
Total Cost of Ownership
winner!**



Managed
Diversity
Software
Distribution
Inventory/
Discovery



Full Life Cycle
Deployment

License
Management

Packaging
Changes

Data/Settings
Migration

Desktop
Images/GUI

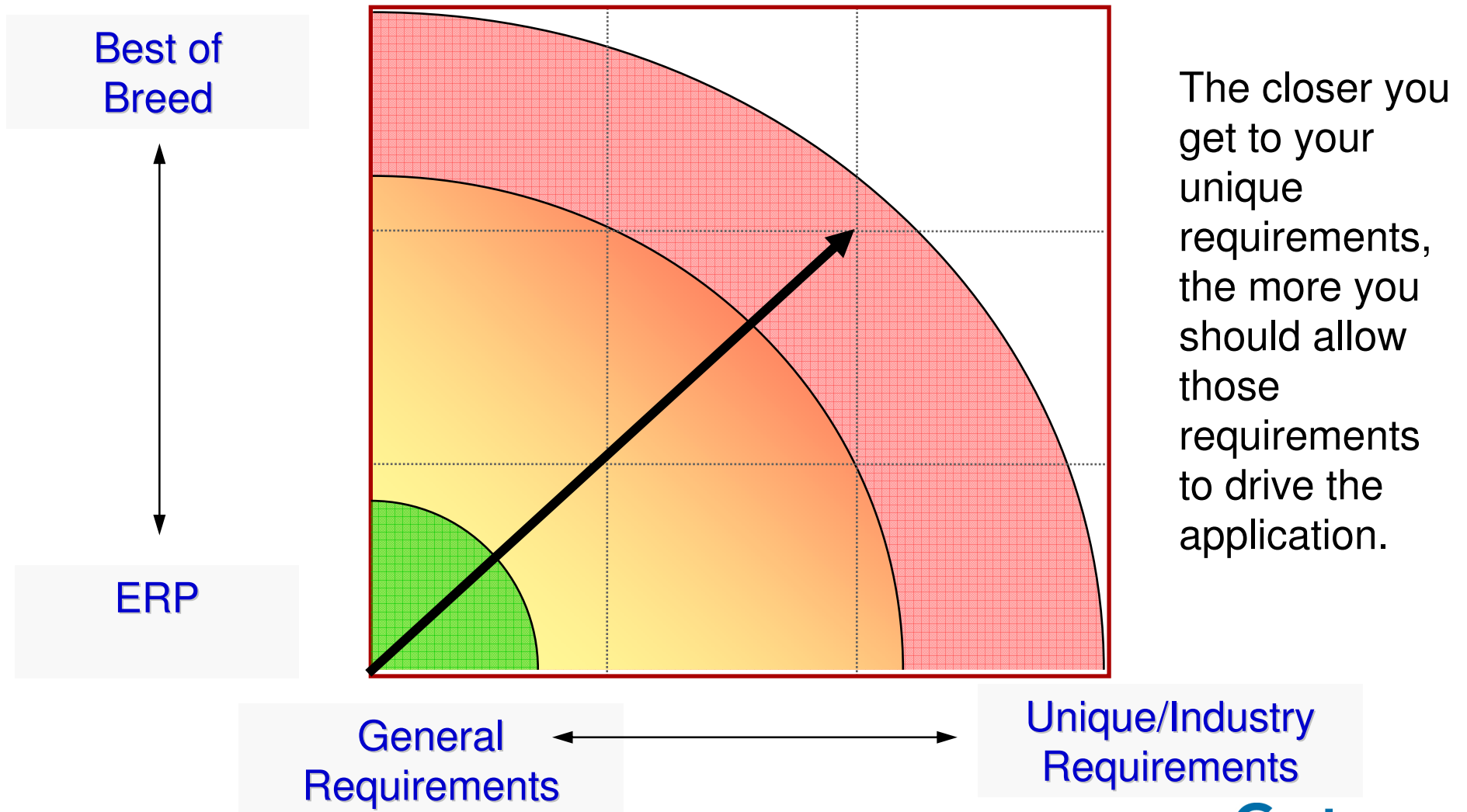
Scenario: Instance Rationalization

Legal and Regulatory Advisory Firm
Post Implementation Optimization

- Description
 - Multiple Instances with variations in configuration
 - Resources taxed to support production operations and apply upgrades to multiple versions
 - Faced with down time * 'N' as each instance goes through upgrade cut-over
- Lessons Learned
 - Reduce instances to the minimum number required for security and diversity
 - Rigorous adherence to configuration standards and guidelines
 - Enforce an approval process for variations, must pass rigorous justification criteria

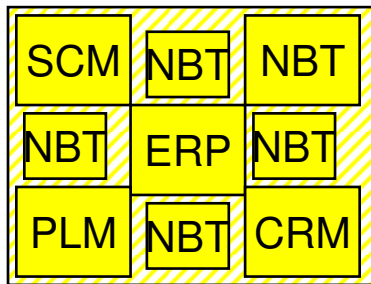
Build Versus Buy Versus Leverage existing SAP and historical systems

Best of Breed or ERP?



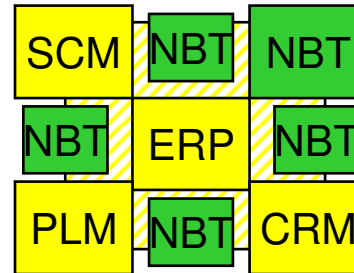
ERP: Fact vs. Fiction

ERP Orthodoxy



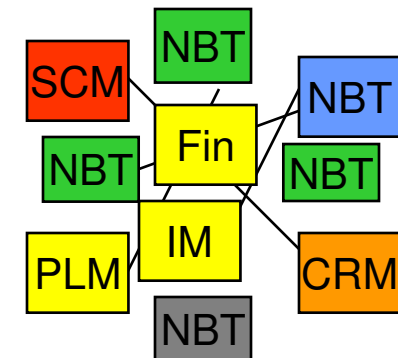
Outsource business application strategy to a single vendor

ERP Reality



Outsource as much as possible to a single vendor without affecting competitiveness

Best-of-Breed



Customize based on a combination of best-of-breed and in-house development

ERP II is defined as an application and deployment strategy that expands out from traditional ERP functions to achieve integration of an enterprise's key, domain-specific internal and external collaborative, operational and financial processes.

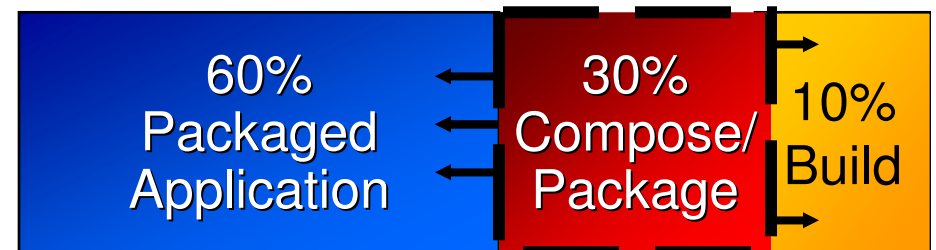
NBT = Next Big Thing

Rebalancing the Process Portfolio: Blurring the Lines Between Buy and Build

Today's Typical Enterprise Portfolio



The Portfolio of the Future



But These Solutions Don't Solve
It All ...

Users Must Develop Software
to Cover Gaps — Not Flexible!

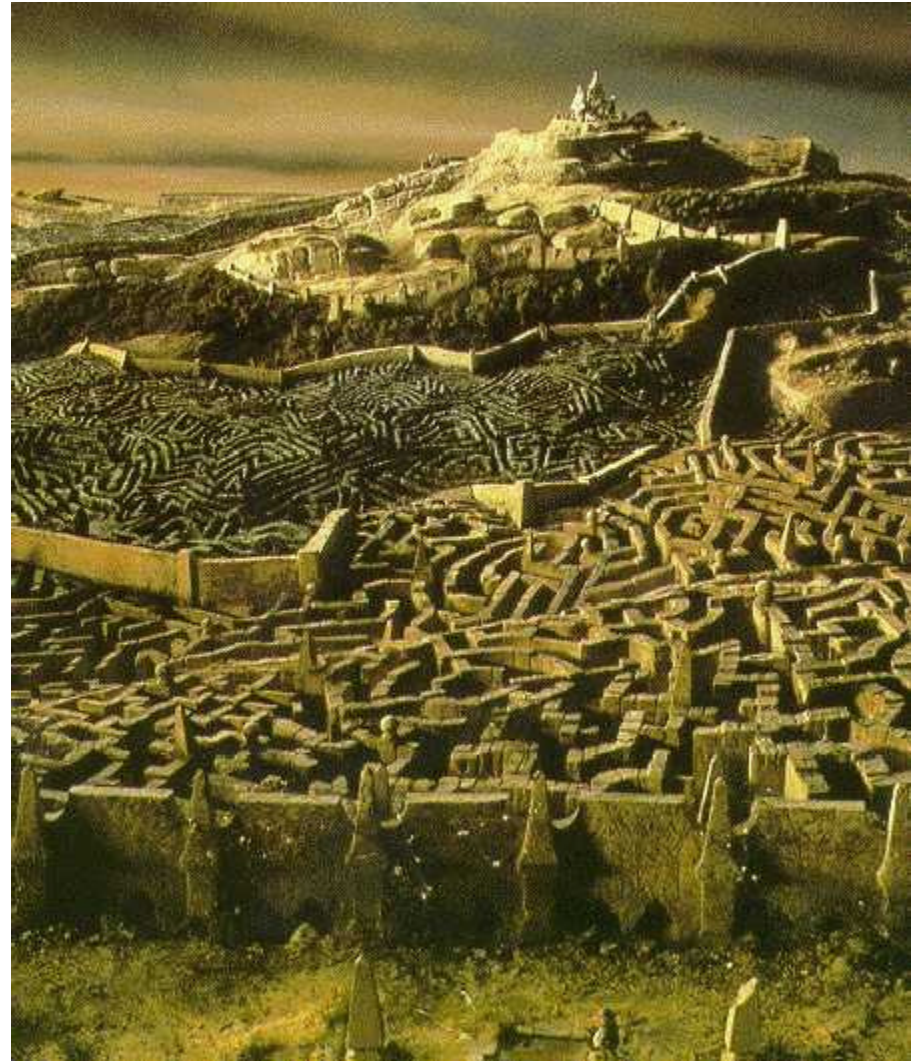
Packaged Composite Applications:

- Enable flexibility in traditional areas of "build"
- Enable innovation through process flexibility

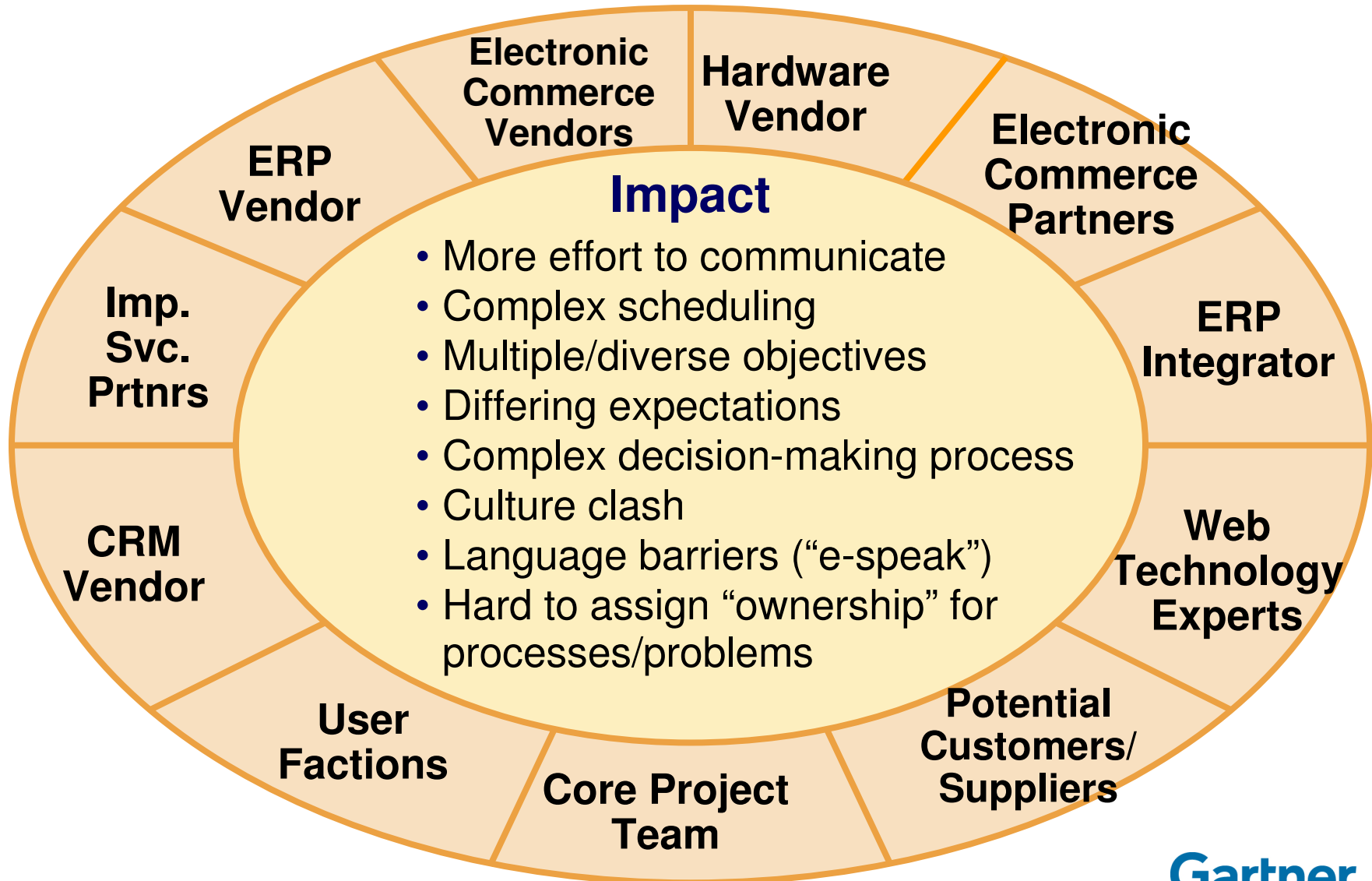
ERP Lessons Learned

The 'Gotchas' of Application Implementation

1. Expectations are not managed and become inflated
2. Project delivery overshadows value delivery
3. Improper deployment strategies are selected
4. People issues are minimized
5. The context of the Life Cycle is not considered



Numerous Business Partners Must Be Managed Effectively



Clarify Roles/Responsibilities if Multiple Parties Are Involved

Example: A Chef

Skills

Technical Performance

1. Chopping
2. Measuring
3. Mixing
4. Peeling
5. Kneading

Knowledge

Business Acumen

1. Seasonal demands
2. Tools
3. Spices
4. Staffing
5. Menu planning

Attributes

Behaviors

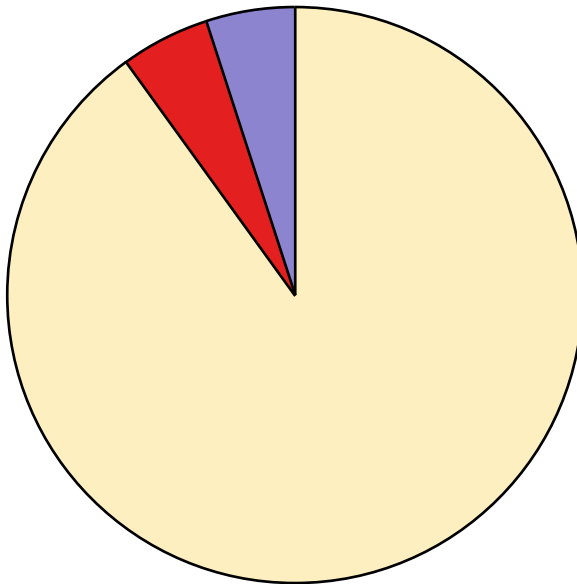
1. Problem solving
2. Coordination
3. Courtesy
4. Creativity
5. Multitasking

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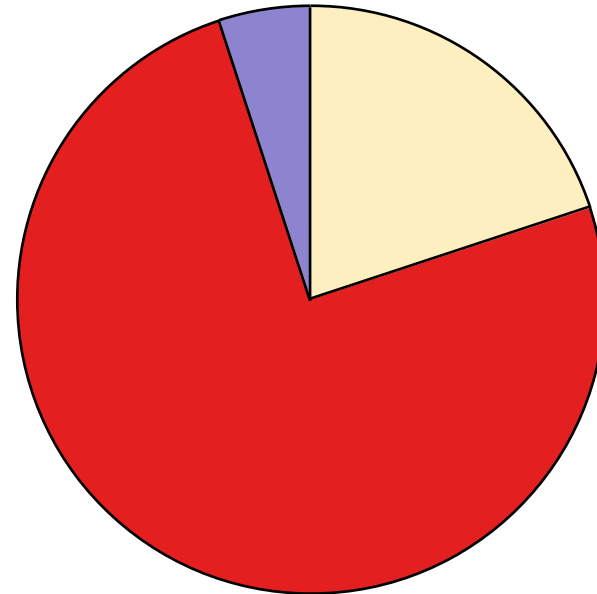
Degree of Accountability, Authority, Responsibility




Raise the Bar for System Integrator Requirements

Traditional Consultant Staffing Model



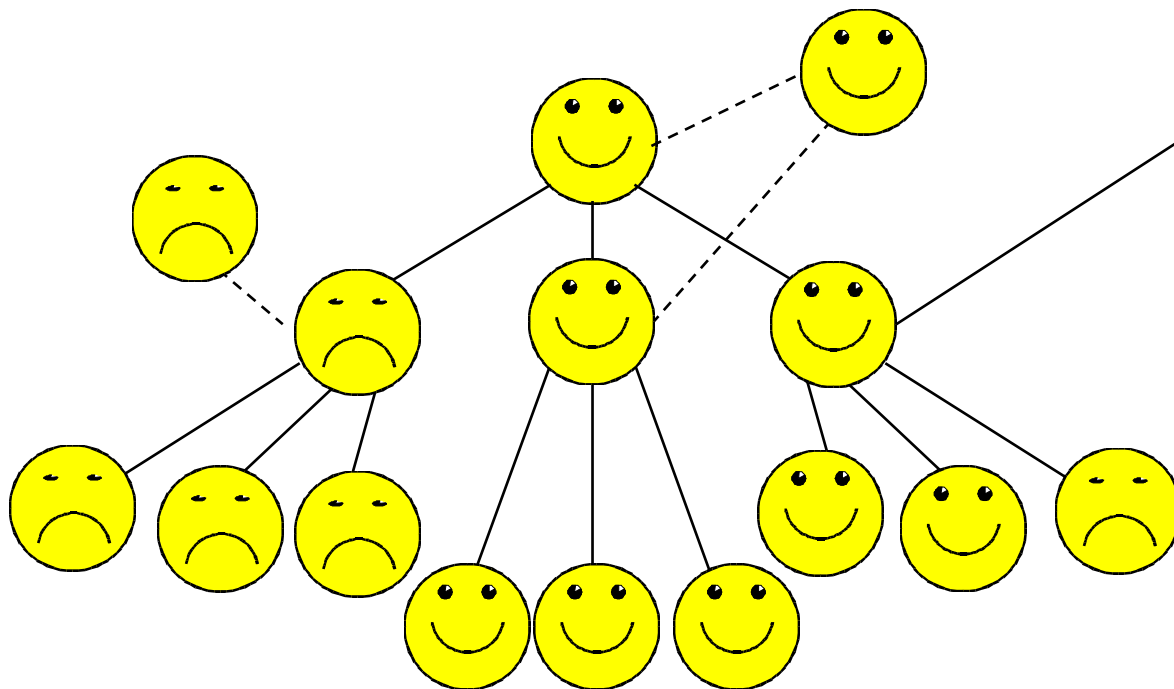
High-End Consultant Staffing Model



-  Strategy
-  Process Analysis
-  Package Configuration

Projectwide Communication Requires More Effort at Enterprise Level

- Tell them, tell them and then tell them again
- Build and sustain ownership and commitment
- Use the grapevine to your advantage



And he told three friends,
and so on,
and so on...

Good **and** bad press has
a ripple effect across
the enterprise and
business partners.

Use communication
to build ownership and
increase productivity,
or ignore it and clean up
the mess later.

ERP Lessons Learned

- **Senior leader buy-in & active support are imperative**
- **Governance – Decision hierarchy must support rapid response to avoid stalling implementation**
- **Unique configuration needs minimize ability to gain efficiency**
- **Address both operational and management processes**
- **Structured organizational change efforts reduce resistance and improve willingness to work through start-up issues**

ERP Lessons Learned, cont'd..

- **Data ownership / stewardship / quality assurance is a complicated issue**
- **Cutting testing effort due to timing / budget constraints costs more in the long run**
- **Structured organizational change efforts reduce resistance, minimize FUD, and improve willingness to work through start-up issues**
- **It's not over until the interfaces are done**
- **Cutting testing costs more in the long run**

Use a Business Case to Add Value Throughout the Life Cycle

	Investment Life Cycle Phase		
	Investment Appraisal	Project Execution	Benefits Harvesting
Business Case Objective	Get project buy-in, approval and funding	Keep project on track	Achieve project payoff
Business Case Role	Inform & convince, develop collective ownership	Baseline reference for scope decisions	Measurement yardstick for auditing
Key Persons and Groups Involved	Executive sponsor, project owner, investment committee	Project manager, project steering committee	Business unit management, auditors

From Project to Program: The Life Cycle View

Typical Project Approach



- There is a clear end
- There is a discrete budget
- The team will assemble and then disband
- There is a clear ROI

Life Cycle Approach



- You are never done
- Many activities started during the project continue
- ROI happens after the project stops
- The project budget is followed with budgets for support, improvement and upgrades
- Helps with long term planning and expectation setting



Additional Information

Enterprise Resource Planning – Definition

- “Enterprise Resource Planning (ERP) is **defined business strategies and enabling software** that integrate manufacturing, financial and distribution functions to dynamically balance and optimize enterprise resources.
- ERP **integrates all departments and functions** across an enterprise onto *a single computing system* that can serve all those different departments' particular needs.
- Most ERP vendor solutions enable the flow of information across the organization, in **end-to-end business processes**, through a comprehensive set of interconnected modules.

Key ERP Terminology

- **Installation** – physical loading of the ERP software onto the hardware, initiation of the data base, and possibly loading the user interface onto users' work stations.
- **Implementation** – a project that enables the ERP application for use across the enterprise. It includes:
 - Installation of the software, supporting hardware and infrastructure.
 - Business process design within the ERP.
 - Change management and communications regarding use of the new application.
 - Tailoring the ERP system for specific business processes.
 - Establishing roles and security for use of the application.
 - Testing, Training, Data conversion.
 - Cutover to use of the ERP.
- **Rollout** – systematic approach to deliver the implemented solution to the whole of the enterprise, likely to encompass many discrete cutovers. Synonym to "deployment."

Key ERP Terminology

- **Tailoring** - changing the software ***or its settings*** to implement the chosen business processes. Techniques include configuration, modification, extension, and enhancement:
 - **Configuration** - making choices about how the software should operate and enabling the choices by creating or selecting values in the parameters of the ERP application.
 - **Enhancement** - writing additional code inside the ERP software environment and existing programs, at pre-defined user-exit points supported by the vendor.
 - **Extension** - writing additional code to add new functions and logic to an ERP application, outside of the existing programs but inside the ERP software development environment.
 - **Modification** - changing source code, dictionary objects, screens, or other application objects from their vendor-delivered, initial state. ***This implementation option is reserved for the most extreme cases, is not supported by the vendors, and should be justified with a hard business case.***
- **Bolt-on** - *vendor-supported* interface between the ERP and an external application.
- **Methodology** - the "tried-and-true" successful practices for implementation.

Acronyms..

- CRM Customer Relationship Management
- ERP Enterprise Resource Planning
- FIN Finance
- FUD Fear, Uncertainty and Doubt
- GUI Graphical User Interface
- NBT New Business Transaction
- PLM Product Lifecycle Management
- ROI Return on Investment
- SCM Supply Chain Management